



## **MEGA BRIGHT LED**

CTRONIOUES

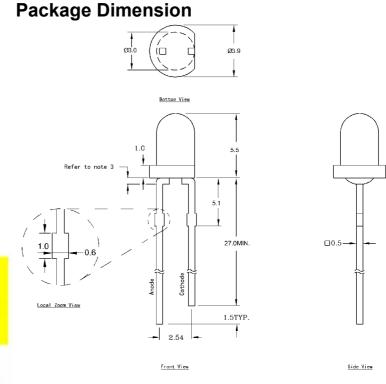
# **BTL-32DRC-XX-X**

#### **Product Features**

- Ultra Bright Red Color
- High Light Output
- **3mm Diameter Circular Package** .
- Water Clear Lens .
- **Highly Reliable**
- IC Compatible
- Leads without Stand Off

#### **Applications**

- Automotive
- **Front Panel Indicator**
- **Special Lighting**
- **General Purpose LEDs** .
- WARNING This range of LEDs is produced with die having a high radiant flux. Care must be taken when viewing the product at close range as the light may be intense enough to cause damage to the human eye.
  - Note: Industry standard procedures regarding static must be observed when handling this product.



inch 0.01 + + Unit: Tolerance: 0.25 mm

#### Optical and Electrical Characteristics at Ta=25°C

Parameter	Symbol	Minimum	Typical	Maximum	Units	Conditions
Luminous Intensity	l <sub>v</sub>	_	1500	_	mcd	I <sub>F</sub> = 20mA (Note 1)
Viewing Angle	<b>2θ</b> ½	_	30	_	deg	I <sub>F</sub> = 20mA
Dominant Wavelength	$\lambda_{ m D}$	645	652	660	nm	I <sub>F</sub> = 20mA (Note 2)
DC Forward Voltage	V <sub>F</sub>	_	1.9	2.5	V	I <sub>F</sub> = 20mA
DC Reverse Current	I <sub>R</sub>	0	_	10	μA	V <sub>R</sub> =5V

Notes:

- 1. Light intensity measures the light sensing response standard using chromatic meter. Refer to the CIE eye-response curve set by International Lighting committee. Tolerance of minimum and maximum intensity = ± 15%
- 2. Wavelength range can be selected from the bin selection table. Tolerance of minimum and  $maximum = \pm 2nm$
- 3. These products are sensitive to static electricity and care must be fully taken when handling products



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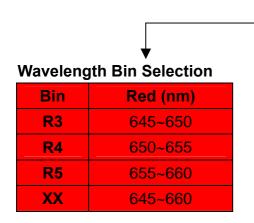
BTL-32DRC-XX-X

## Absolute Maximum Ratings at Ta=25°C

Symbol	Parameter	Max.	Unit
PD	Power Rating	100	mW
V <sub>R</sub>	Reverse Voltage (I <sub>R</sub> =10µA)	5	v
I <sub>F</sub>	Continuous Forward Current	30	mA
I <sub>FP</sub>	Peak Forward Current (0.1 duty cycle @ 1kHz)	100	mA
T <sub>opr</sub>	Operating Temperature Range	-35 ~ + 80	°C
T <sub>stg</sub>	Storage Temperature Range	<b>-40</b> ~ + 100	°C
Lead Soldering Temperature [1.6mm (0.063inch) from body]		260°C - max 5 seconds	

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## Wavelength and Brightness Selection



#### **Brightness Bin Selection**

Bin	Range(mcd)
N	880~1140
Ο	1140~1485
Р	1485~1930

### **Packaging Options**

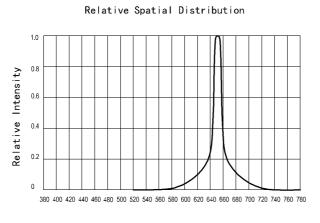
Standard: 1000 pc bulk pack Optional: Tape and Reel (Please specify when order)



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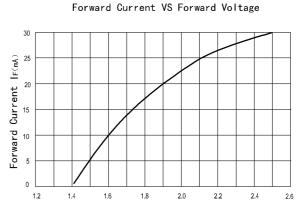
## Typical Electro-Optical Characteristics Curves at T<sub>a</sub>=25°C



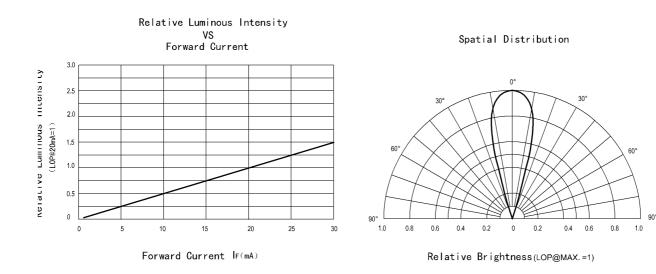
Technologies Co., Ltd.

B

Wavelength  $\lambda P(nm)$ 







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